

CITY OF ST. MARYS STORM WATER TASK FORCE

STORMWATER
FEBRUARY 15, 2020




CITY OF
ST. MARYS



VISION STATEMENT

THE VISION OF THE STORM WATER TASK FORCE IS TO PROVIDE ENVIRONMENTAL PROTECTIONS, MINIMIZE THE IMPACTS TO CITIZENS AND PUBLIC AND PRIVATE PROPERTY DUE TO FLOODING CAUSED BY STORM WATER, AND TO PROMOTE PUBLIC HEALTH AND SAFETY THROUGH THE IMPLEMENTATION OF STORM WATER REGULATIONS, POLICIES AND ENGINEERING.



UTILITY GOALS



Maintain the existing drainage infrastructure to maximize its useful lifespan.



Educate the public about stormwater issues.



Invest in the City's drainage infrastructure through implementation of capital drainage improvements.

OPERATIONS AND MAINTENANCE OF THE DRAINAGE SYSTEM

- 19 MILES OF STORM SEWER PIPE AND 71 MILES OF DITCHES WITH ASSOCIATED STRUCTURAL CONTROLS, INCLUDING CATCH BASINS, INLETS, CULVERTS AND OUTFALLS
- CURRENTLY ONE DEDICATED DRAINAGE CREW
- STORM WATER UTILITY WILL ADD AN ADDITIONAL DEDICATED DRAINAGE CREW TO CONDUCT MAINTENANCE



UPDATED STORM WATER MASTERPLAN CAPITAL IMPROVEMENT PLAN (CIP)

- INCLUDES A 30% CONTINGENCY FROM 2008 STORM WATER MASTER PLAN COSTS
- INCLUDES COST NOT INCLUDED IN ORIGINAL PLAN COST:
 - 15% FOR SURVEY/ENGINEERING
 - \$10,000/PROJECT FOR GENERAL ENVIRONMENTAL & SEDIMENT CONTROL, TRAFFIC CONTROL, STRIPING, SURVEY/STAKING, AND AS-BUILTS
 - ADDITIONAL COST = \$1.31 MILLION
- UPDATES TOTAL CIP COSTS = \$7.354 MILLION. (INCLUDES 52 PROJECTS FROM 2008 AND ADDS ADDITIONAL PROJECTS THAT CITY HAS IDENTIFIED SINCE 2008 (I.E. DRAINAGE STUDIES/SEA LEVEL RISE PRIORITIZATION))



1 in = 0.25 miles

CIP ID	Address
A2	Inlet Reach Circle
A3	Douglas Drive
A4	Douglas Drive
B2	(2) Sand Bar Drive & Starfish Way
B3	Kelly Court
B4	Martha Drive
B5	(2) Douglas Drive & Tiffany Circle
C2	(3) Bartlett Street; W. Conyers Street
D2	W. Meeting Street
D3	W. Ashley Street
D4	W. Hall Street
D5	W. Church Street
D6	W. Alexander Street
D7	Wheeler Street
E2	E. Alexander Street
E3	Ready Street
E4	E. Conyers Street
E5	E. Conyers Street
E-27	Colerain Oaks (Reid, Ryan, & Lynn Dr)
F2	Union Street
F3	Seagrove Street
F4	N. Osborne Street
F5	St. Patrick Street
F6	Herb Bauer Dr
F7	Aquatic Center (pond)
G2	Barker Terrace
G3	Point Peter Road (parallel)
G4	Point Peter Road (crossing)
G5	Industrial Drive
H3	S. Dandy Street
H4	Devon Drive
I2	Kings Bay Village Shopping Center - North
I3	Kings Bay Village Shopping Center - South
I4	City Smitty Drive
J3	Shadowlawn Drive/Alex Court
K2	Natures Drive (pond)
K3	Schoolhouse Creek Drive
L2	McQueen Circle
L3	(2) McQueen Circle & Stafford Way
M2	Kings Bay Road
M3	Talbot Court
N2	(2) Silver Fox Drive & Pond
N3	Winding Road
O2	(3) Oak Street & Henry Avenue & Birch Street
O3	New Point Peter Road
P1	Charles Street
P2	North of Chelsea Place
P3	Henry Avenue
P4	Sloan Street
P5	Crooked River - Entire Neighborhood
P6	Palmetto Street
P7	Snug Harbor Dr & Bay Run Rd (General)
P8	SR 40
P9	Union St & Wheeler St
Q1	Dolphin Drive
Q2	Alden Court
Q3	Tapique Circle
Q4	E Weed Street / Norris Street
Q5	Bailey Street
Q6	Westgate Circle

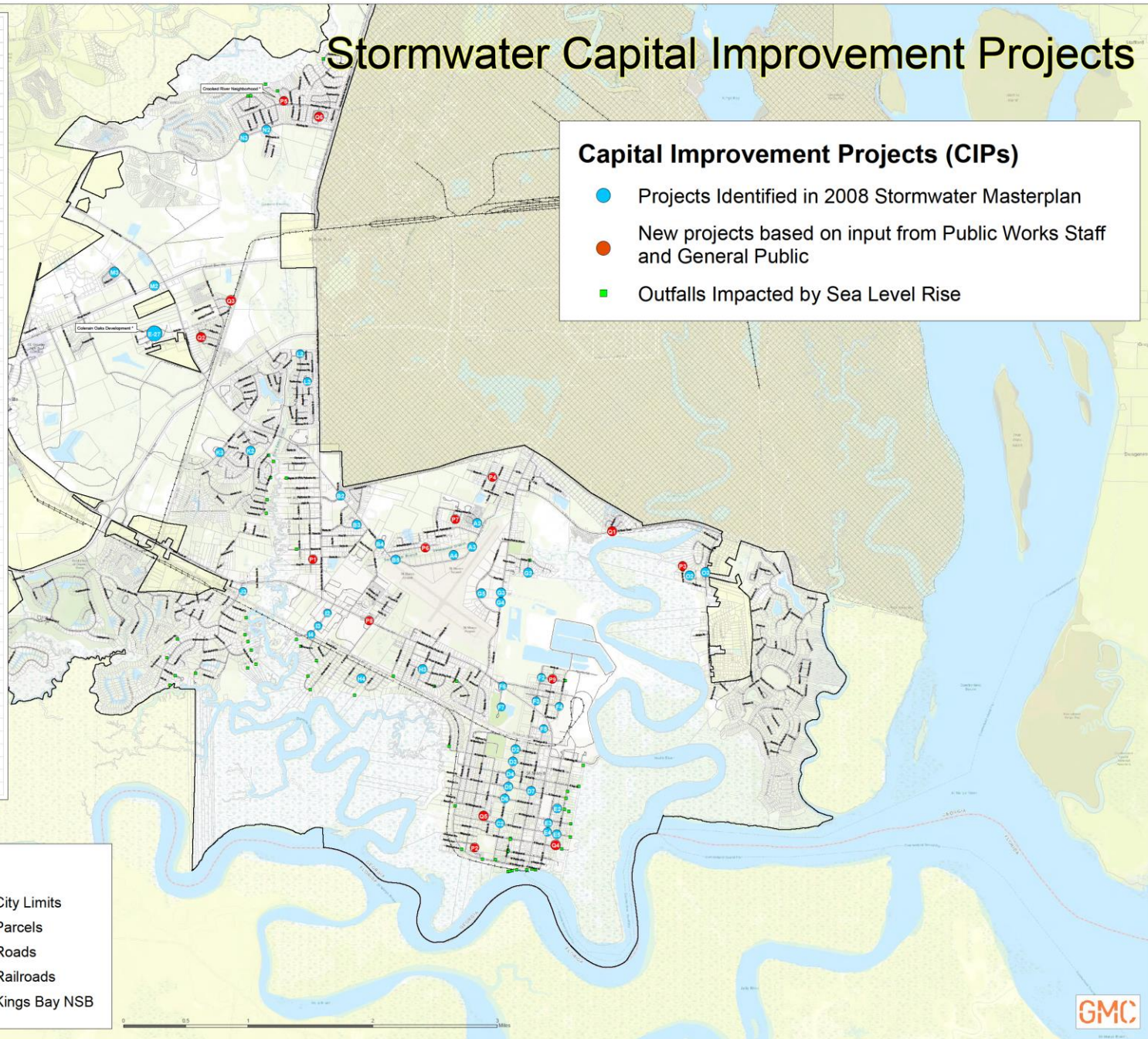
* Large scale neighborhood projects

Legend	
	City Limits
	Parcels
	Roads
	Railroads
	Kings Bay NSB

Stormwater Capital Improvement Projects

Capital Improvement Projects (CIPs)

- Projects Identified in 2008 Stormwater Masterplan
- New projects based on input from Public Works Staff and General Public
- Outfalls Impacted by Sea Level Rise



COMMUNITY RATING SYSTEM (CRS)

- THE NATIONAL FLOOD INSURANCE PROGRAM (NFIP) VOLUNTARY PROGRAM OFFERS DISCOUNTS ON FLOOD INSURANCE TO REWARD GOOD FLOOD PLAIN MANAGEMENT WITHIN A COMMUNITY, WHICH THE UTILITY ALLOWS US TO DO.
- COMMUNITIES RECEIVE POINTS FOR IMPLEMENTING ACTIVITIES ABOVE MINIMUM STANDARDS.
- THE MORE POINTS THE GREATER THE REDUCTION ON FLOOD INSURANCE POLICIES WITHIN THAT COMMUNITY.
- ST. MARYS CURRENTLY HAS A 6 RATING AND CAN EXPECT IT TO IMPROVE EVEN MORE WITH IMPLEMENTATION OF STORM WATER UTILITY.

ADDITIONAL ANNUAL FINANCIAL NEEDS

Drainage System Maintenance

- New Dedicated Drainage Crew - \$187,632
- Purchased Contracted Services - \$50,000
- Road Paving & Drainage Supplies - \$25,000

CIP implementation

- CIP Projects - \$300,000
- Amortized Costs - \$25,000

Estimated Net Revenue at \$5.00/ERU

- **\$628,614**



STORM WATER UTILITY OVERVIEW

- FUNCTIONS AS A USER FEE-BASED SYSTEM – THE SAME AS OTHER PUBLIC UTILITIES (WATER, SEWER, SANITATION, ETC.)
- 100% OF THE REVENUES ARE DEDICATED TO THE STORM WATER PROGRAM
- ASSIGNS COSTS TO ALL PARCELS BASED ON IMPERVIOUS SURFACE

WHY A STORM WATER UTILITY & USER FEE?

- ASSIGNS COSTS TO ALL PARCELS IN AN EQUITABLE MANNER
 - EVERY DEVELOPED PROPERTY CONTRIBUTES
 - FEES ACCORDING TO DEMAND AND SERVICES RECEIVED
- STABLE/CONSISTENT ANNUAL REVENUE STREAM
- REVENUES PAY FOR BOND AND GEFA LOANS TO COMPLETE CIP PROJECTS



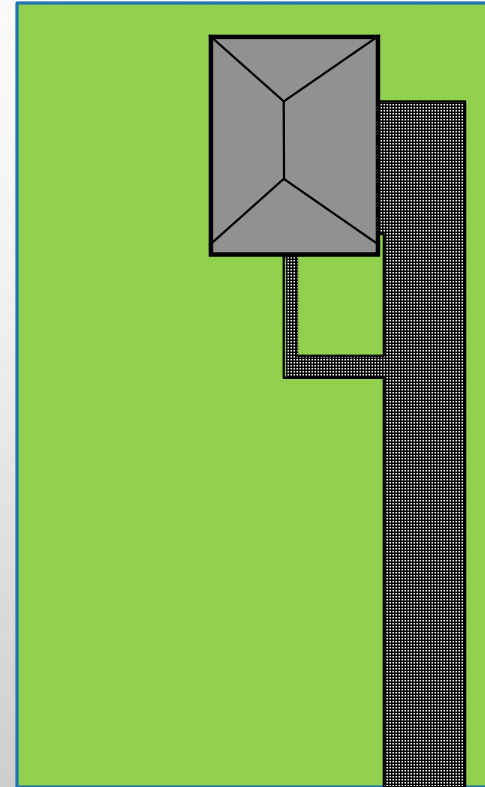
GEORGIA STORM WATER UTILITIES

- HOW MANY?
 - FIRST GEORGIA UTILITY WAS GRIFFIN, GA IN 1998
 - OVER 65 UTILITIES IN 2018
- WHAT ABOUT SOUTH GEORGIA?
 - HINESVILLE, GARDEN CITY, VALDOSTA, STATESBORO, RICHMOND HILL, BRUNSWICK
- TYPICAL RESIDENTIAL CUSTOMER RATE IN GEORGIA?
 - APPROXIMATELY \$5.00 PER MONTH STATEWIDE

HOW WILL THE USER FEE BE CALCULATED?

EQUIVALENT RESIDENTIAL UNIT
(ERU) = BILLING UNIT

- ERU = SINGLE-FAMILY RESIDENTIAL
MEDIAN IMPERVIOUS AREA
- **ERU = 3,700 SQ FT = 1.0 BILLING UNIT**



HOW WILL THE USER FEE BE CALCULATED?

Single Family Residential (SFR)

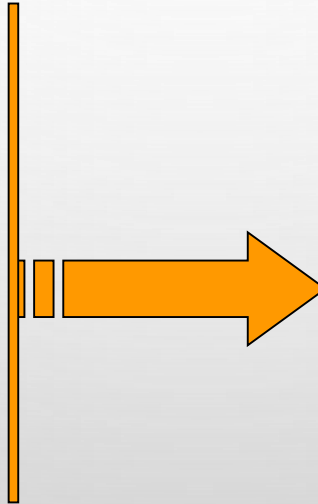
- Single-Family



Flat Fee
(1 ERU)

Non Single Family Residential (NSFR)

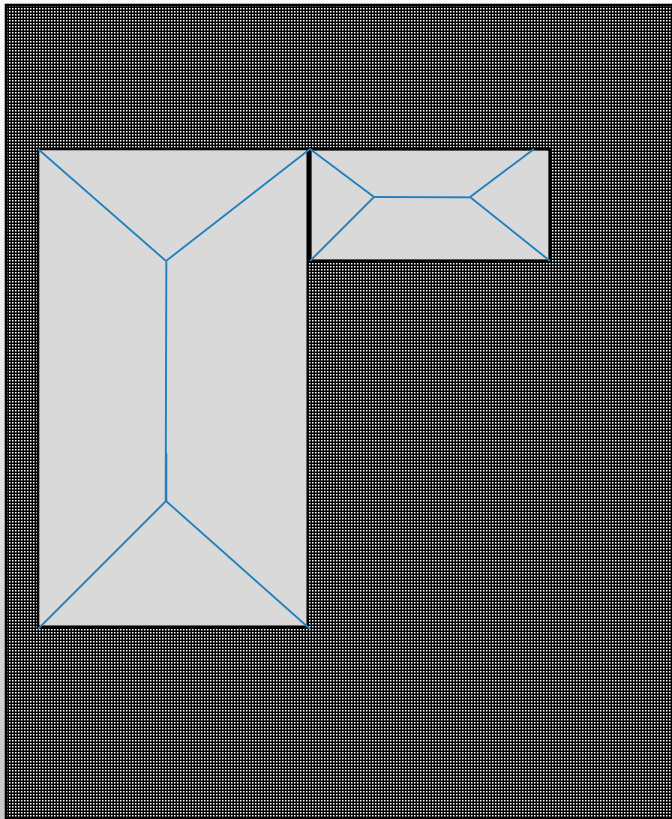
- Multi-Family
- Commercial
- Industrial
- Schools & Churches
- Governmental



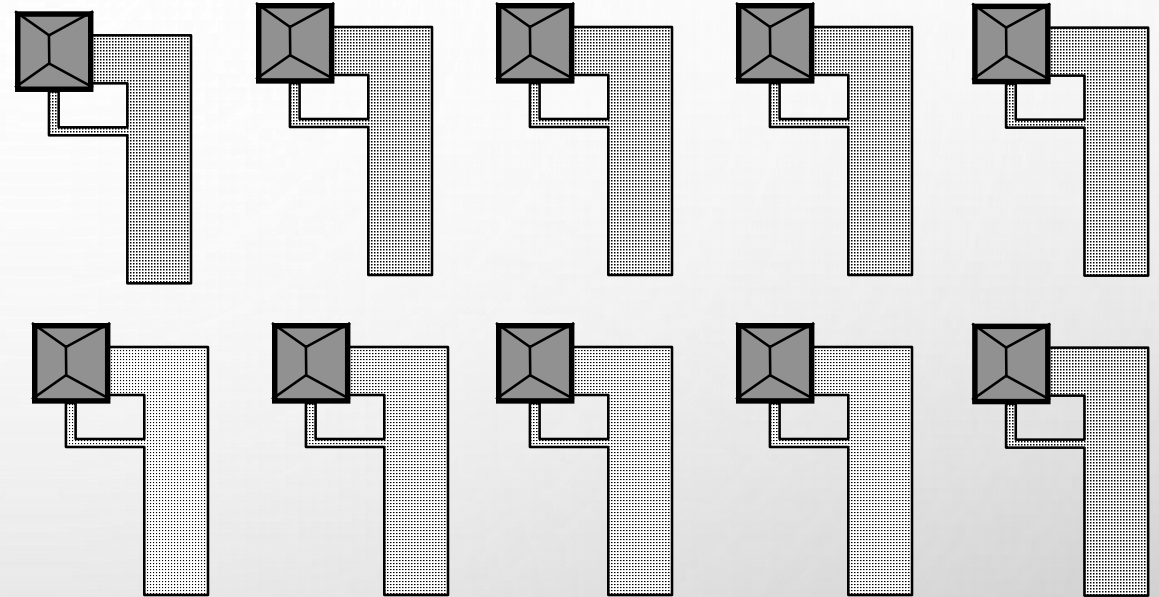
Custom Fee
(impervious area/ERU =
number of billing units)

HOW WILL THE USER FEE BE CALCULATED?

NON-SINGLE FAMILY RESIDENTIAL (NSFR)



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Building Footprint = 21,000 sqft
Parking Lot = 16,000 sqft
Total Impervious Area = 37,000 sqft

Total ERUS= $37,000/3,700 = 10$ ERUs



STORM WATER USER FEE CREDITS

- DESIGNED TO ENCOURAGE GOOD STORM WATER MANAGEMENT PRACTICES BY USERS
- REDUCES USER FEE COSTS FOR CUSTOMERS THAT INCORPORATE APPROVED STORM WATER MITIGATION PROJECTS ON THEIR PROPERTY
- CREDIT MANUAL PROVIDES INFORMATION ON WHAT MITIGATION EFFORTS QUALIFY AND HOW USERS APPLY FOR CREDIT
- ONCE ORDINANCE AND CREDIT MANUAL ARE APPROVED USERS CAN APPLY FOR CREDITS.

TYPICAL SINGLE FAMILY RESIDENTIAL CUSTOMER CREDITS

Credit Description	Credit Amount
Residential Green Infrastructure/Low Impact Development (GI/LID)	20%
Low-Impact Parcel	25%
Reduced SFR Footprint	50%
No Direct Discharge	Up to 50%
Natural Area Preservation	Up to 25%


TYPICAL NON SINGLE FAMILY RESIDENTIAL CREDITS

Credit Description	Credit Amount
Low Impact Parcel	25%
No-Direct Discharge	Up to 50%
Watershed Stewardship	10%
Non-Residential GI/LID	Up to 20%
Natural Area Preservation	Up to 25%
Water Resources Education Program	50%
NPDES Industrial Stormwater General Permit	30%
Detention Pond Credit ¹	Up to 30%

¹can be applied to a residential subdivision per the policy manual



NEXT STEPS

1. ADOPT ORDINANCE AND CREDIT MANUAL
 2. CONTINUE PUBLIC INFORMATION
 3. ACCEPT CREDIT APPLICATIONS
 4. BILLING DATABASE COMPLETION AND UPLOAD
 5. ADOPT BUDGET AND SET RATE
 6. CUSTOMER SERVICE TRAINING
 7. FIRST STORM WATER UTILITY BILLING CYCLE
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QUESTIONS

PLEASE SUBMIT ANY QUESTIONS TO
STORMWATER@STMARYSGA.GOV

